

GURVICH, M.Ya.

[Boot-making machine and its operation] Nasadochnaia mashina i
rabota na nei. Moskva, Gos. nauchno-tekhn.isd-vo tekstil.,legkoi
i poligr. promyshl., 1948. 54 p. (MLRA 7:11)
(Shoe machinery)

GURVICH, M. YA.

Felt

(Mechanical engineering of fullingfelt production) Mekhanicheskaiia tekhnologiya
valial'no-voilochnogo proizvodstva. Moskva, Gos. mauchno-tekhn. izd-vo legkoi
promyshl. 1952.

9. Monthly List of Russian Accessions, Library of Congress, December ²195~~8~~, Uncl.

GURVICH, M.Ya. (Moskva)

Spiny dogfish. Priroda 50 no.12:115 D '61.
(Black Sea--Dogfish) (Felt work)

(MIRA 14:12)

POFOV, Vasiliy Alekseyevich; ASTREIN, Avenir Arkad'yevich; UZDIN, David
Konstantinovich; GURVICH, Natan Borisovich; SOKOLOV, V.G., red.;
OTOICHEVA, M.A., red. izd-va; LELYUKHIN, A.A., tekhn. red.

[Operation, maintenance and repair of trolley bus rolling stock]
Ekspluatatsiia i remont podvizhnogo sostava trolleibusa. Pod
obshchei red. V.A.Popova. Moskva, Izd-vo M-va kommun.khoz.
RSFSR, 1961. 471 p. (MIRA 15:3)

(Trolley buses)

GURVICH, N. G.

AID P - 940

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 9/25

Authors : Akopyan, A. A., Kand. of Tech. Sci., Gurchich, N. G., Kand. of Med. Sci., Zhukov, I. A., Eng., Negovskiy, V. A., Doc. of Med. Sci.

Title : Possibility of cardiac resuscitation by means of impulses during ventricular fibrillation

Periodical : Elektrichestvo, 10, 43-49, 0 1954

Abstract : Experiments with de-fibrillation of dogs' hearts are described and optimal impulse characteristics were determined. Possibilities of application to the human organism are discussed. A description of the de-fibrillator, generating electric impulses is given. Ten photographs and drawings, 23 references (6 Russian: 1899-1954).

Institutions: All-Union Institute of Electrical Engineering im. Lenin; Laboratory of Experimental Physiology for the Revival of Organisms of the Academy of Medical Sciences

Submitted : J1 10, 1954

GURVICH, N.L., doktor med.nauk; AKOPYAN, A.A., prof.; ZHUKOV, I.A., inzh.

Constant magnitude of an injurious electric current. Vop.elektropat.
i elektrotrav. 1:15-21 '61. (MIRA 15:10)

1. Iz laboratorii eksperimental'noy fiziologii po ozhivleniyu
organizma (zav. - prof. V.A.Negovskiy) AMN SSSR i laboratoriya
perenapryazheniy (zav. - prof.A.A.Akopyan) Vsesoyuznogo
elektrotekhnicheskogo instituta im. V.I.Lenina.
(ELECTRICITY, INJURIES FROM)

GURVICH, Naum Lazarevich; NEYMAN, M.I., red.; BUKOVSKAYA, N.A.,
tekhn. red.

[Electric trauma; prevention and first aid] Elektrotravma;
profilaktika i okazanie pervoi pomoshchi. Moskva, Medgiz,
1963. 31 p. (MIRA 16:5)

(ELECTRICITY, INJURIES FROM)

ALEKSEYEVA, Ye.I., kand. sel'khoz. nauk; BUZINOV, P.A., kand. sel'khoz. nauk; VODOLAGIN, V.D.; VOLKHOVSKAYA, U.V.; GLUSHCHENKO, N.N., kand. biol. nauk; GURVICH, N.L., doktor biol. nauk; ZHELEZNOV, P.A., kand. sel'khoz. nauk; KSENDZ, A.T.; LESHCHUK, T.Ya.; LUK'YANOV, I.A., kand. sel'khoz. nauk; MAYCHENKO, Z.G., kand. sel'khoz. nauk; TANASIYENKO, F.S., kand. khim. nauk; ZNAMENSKIY, M.P.; PERSIDSKAYA, K.G.; PODLESNOVA, A.F.; ROGOCHIY, I.Ya.; REZNIKOV, A.R.; SHUL'GIN, G.T.; KHOTIN, A.A., doktor sel'khoz. nauk; LAPSHINA, O.V., red.; MINENKOVA, V.R., red.; MAKHOVA, N.N., tekhn. red.; BALLOD, A.I., tekhn. red.

[Aromatic plants] Efiromaslichnye kul'tury. Moskva, Sel'-khozizdat, 1963. 358 p. (MIRA 16:12)
(Ukraine--Aromatic plants)

COMMON ELEMENTS		COMMON VARIABLES	
1ST AND 2ND GROUPS	3RD AND 4TH GROUPS	5TH AND 6TH GROUPS	7TH AND 8TH GROUPS
<p>GURVICH, N. L. <i>Ca</i> 17</p> <p>The diversity of composition of essential oils in certain species of the Transcaucasian thyme. N. L. Gurvich. <i>Chem. Zvesti.</i> 1941: 141-142. (1941).—A preliminary report on the chem. compn. of the essential oils from <i>Thymus holochrysus</i> Boiss. et Hohen from Shakhbuz (I), <i>Thymus armeniacus</i> Des-Schoutr. et Klock from Stepanavan, Armenia (II) and <i>Thymus transcaucasicus</i> Rom. from Ghil region, Azerbaidjan (III). The presence of thymol in I and Eucalol in II is reported. Consts. for III are given: n_D^{20} 1.4682, d_4^{20} 0.8578, acid value 11.08, Ac value 165 (after removal of phenols), C. W. Soderberg.</p>			
<p>ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>			
<p>100000 141 000 000</p>		<p>100000 141 000 000</p>	

GURVICH, N. L.

PA 17/49T87

USSR/Medicine - Botany
Medicine - Taxonomy

May/Jun 48

"Plants Containing Ester Oils, Their Habitats and
Their place in Phylogenetic Classification Systems,"
N. L. Gurvich, Baku, 5 pp

"Botan Zhur" Vol XXXIII, No 3

Conclusions are largely based on study of
Azerbaydzhan flora. Submitted 20 Oct 47.

17/49T87

GURVICH, N.L.

Some results of the introduction of essential oil plants in the
U.S.S.R. Trudy Bot.inst.Ser.6 no.7:74-84 '59.

(MIRA 13:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslichnykh i
efiromaslichnykh kul'tur (VNIIMEMK), Krasnodar.
(Aromatic plants)

GURVICH, N.I.

Classification of essential oil plants. Trudy Bot.inst.Ser.5 no.6:
7-126 '60. (MIRA 13:6)
(Essences and essential oils)

GURVICH, N.L., doktor biolog.nauk; NEPARIDZE, N.I.

Rapid method for determining the essential oil content of roses
and basils by means of a nephelometer. Masl.-zhir.prom. 26

no.10:22-23 O '60.

(MIRA 13:10)

1. Krasnoarmeyskiy efiromaslichnyy sovkhov-zavod (for Gurvich).
2. Voznesenskaya zonal'naya opytnaya stantsiya (for Neparidze).
(Essences and essential oils)

ALESHINA, L.I., inzh.; GURVICH, N.L., doktor biolog.nauk; FROLOV, V.A., inzh.

Purifying petroleum ether in essential-oil plants of Krasnodar Territory. Masl.-zhir. prom. 27 no.6:31-33 Je '61. (MIRA 14:6)

1. Tsentral'naya khimicheskaya laboratoriya Upravleniya pishchevoy promyshlennosti Krasnodarskogo sovnarkhoza (for Aleshina).
 2. Krasnoarmeyskiy efiromaslichnyy sovkhoz-zavod (for Gurchich).
 3. Upravleniye pishchevoy promyshlennosti Krasnodarskogo sovnarkhoza (for Frolov).
- (Krasnodar Territory--Essences and essential oils)
(Ligroine)

ALESHINA, L.I., inzh.; TIMKOV, V.I.; GURVICH, H.L.

Methods for determining the essential oil content of eugenol
basil. Masl.-zhir. prom. 27 no.7:34-36 JI '61.

(LIRA 14:7)

1. Tsentral'naya khimicheskaya laboratoriya Upravleniya pishchevoy
promyshlennosti Krasnodarskogo sovmkhloza (for Aleshina).
2. Matyrbovskiy efiremaslichnyy ~~sovmkhoz~~ "Elit" (for
Tiskova).
3. Krasnodarskiy efiremaslichnyy sovmkhoz-zavod
(for Gurchich).

(Essences and essential oils)

(Basil(Botany))

ALESHINA, L.I., inzh.; GURVICH, N.L., doktor biolog.nauk

Results of sage (Salvia) harvesting by a combine.
Masl.-zhir.prom. 28 no.7:37-38 JI '62. (MIRA 15:11)

1. Tsentral'naya khimicheskaya laboratoriya Upravleniya
pishchevoy promyshlennosti Krasnodarskogo soveta narodnogo
khozyaystva (for Aleshina). 2. Krasnoarmeyskiy efiromaslichnyy
sovkhoz-zavod (for Gurvich).
(Sage)

GURVICH, N.L., doktor biolog.nauk

Improved laboratory still for the distillation of essentail oils.
Masl.-zhir.prom. 29 no.1:35 Ja '63. (MIRA 16:2)

1. Krasnoarmeyскиy efiromaslichnyy sovkhov-zavod.
(Distillation apparatus) (Essences and essential oils)

GURVICH, M.L., doktor biol. nauk

More precise determination of harvest time for musk sage. Masl.-
zhir. prom. 29 no.3:25-26 Mr '63. (MIRA 16:4)

1. Krasnoarmeyskiy efiromaslichnyy sovkhoz-zavod.
(Essences and essential oils) (Sage)

GURVICH, N.L.

Use of solvent pairs and the nephelometer for the quantitative
microanalysis of linalool in coriander oil. Izv. AN Azerb. SSR.
Ser. biol. nauk no.2:11-17 '64. (MIRA 17:10)

ACCESSION NR: AP4000269

S/0219/63/056/011/0039/0043

AUTHOR: Nogovskiy, V. A.; Soboleva, V. I.; Gurvich, N. L.;
Kiseleva, K. S.

TITLE: Deep hypothermia as a method for prolonging clinical death
periods

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny*, v. 56,
no. 11, 1963, 39-43

TOPIC TAGS: hypothermia, clinical death, resuscitation process,
resuscitation process inhibitor, loss of blood, blood loss, acute
blood loss, blood infusion, intraarterial infusion, intraarterial
blood infusion, blood perfusion, heart dilation, hemodynamic
disturbance, metabolic acidosis

ABSTRACT: In two groups of experimental dogs body temperature was
reduced to 20-23°C and venesection was performed to induce clinical
death. Animals were revived after clinical death of two hours with
heat, blood perfusion, artificial respiration, defibrillation, and
heart stimulation. Electrocardiograms were recorded during the entire
experiment. In the first group of 23 dogs only 5 animals survived
Card 1/2

ACCESSION NR: AP4000269

clinical death with complete restoration of their vital functions. All other animals in this group either died within 2 days after the experiment or failed to revive at all. Resuscitation failure was attributed to imperfect blood perfusion causing acute heart dilation, marked hemodynamic disorders during restoration period, and severe acidosis inhibiting further restoration and leading to serious changes in the brain and internal organs. These factors were controlled in reviving the second group of 8 dogs, and fresh donor blood and blood substitution were also used in the later stages of revival. All 8 animals were revived and vital functions were completely restored in 5 of the animals. Thus, under deep hypothermia clinical death can be prolonged to 2 hrs with subsequent complete restoration of vital functions. Orig. art. has: none.

ASSOCIATION: Laboratoriya eksperimental'noy fiziologii po ozhivleniyu organizma, AMN SSSR, Moskva (Experimental Physiology Laboratory for Organism Revival, AMN SSSR)

SUBMITTED: 21Jun63

DATE ACQ: 04Dec63

ENCL: 00

SUB CODE: AM
Card 2/2

NO REF SOV: 006

OTHER: 012

Cd

11 H

The influence of tobacco smoke on the reflex excitability. Ya. A. Rozin and N. L. Gurvich. *Izvestiya Nauch.-Issledovatel. Inst. Fiziol. SSSR*, 1939, I, 2027.—In tests on frogs, soles. of tobacco smoke reduced the reflex excitability. Soles. of nicotine had the same effect.
M. G. Moore

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

GURVICH N. L. and YNIEV G. S.

Inst. of Physiol., Acad. of Sciences, USSR

Restoration of heart rhythm during fibrillation by a condenser discharge

American Review of Soviet Medicine 1947, 4/3 (252-256) Graphs 3

4945 In 650 animals (dogs, sheep, goats) ventricular fibrillation, produced by electric shock or drugs, was abolished by condenser discharges and the heart action restored to normal for prolonged observation periods (10 days to 4 months). There was a correlation between the voltage thresholds of the condenser discharges necessary to abolish fibrillation and the weight of the animal, and an inverse relationship between threshold voltage and condenser capacity. Inclusion of an inductive resistance from 0.3 to 0.5 henrys in the circuit lowered the voltage thresholds. It is suggested that condenser discharges be tried in cases of electrocution in man.

Simonson-Minneapolis

SO: Section II Vol. 1² No. 7-12

NEGOVSKIY, V. A; GURVICH, N. L.

Possibility of resuscitation after electric shock. Fel'dsher &
akush., Moskva no. 6:6-13 June 1952. (CJML 22:30)

1. Professor for Negovskiy.

GURVICH, N.L.

Restoration of vital functions of the organism following fatal electric shock. Klin. med., Moskva 30 no. 6:66-70 June 1952. (CIAM 22:5)

1. Of the Laboratory of Experimental Physiology for Revival of the Organism (Head -- Prof. V. A. Nagovskiy), Academy of Medical Sciences USSR.

CHURVICH, N. L.

644. The possibility of reviving the organism from fibrillations of the heart by means of an impulse current. A. A. ASKOVIAN, N. L. CHURVICH, E. A. ZIL'KOV AND V. A. NERENKOV, *1957, No. 10, 43-9*. In Russian.

It was found that the amplitude of an electric impulse capable of interrupting fibrillations caused by a.c. bears a definite relation to the duration of the impulse. The discharge of a capacitor of 24 μ F directly on the thorax of a dog stops fibrillations if the discharge current has an amplitude of 15-30 A and a duration of 2-3 msec. If the same capacitor is discharged through an inductance of ~ 0.3 henry (pulse duration ~ 10 msec) the current need only be 6-12 A. It is preferable to use longer impulses of smaller amplitude, since their after-effects on the heart are less dangerous. Experiments on dogs, sheep and goats showed that the magnitude of the defibrilating current increases with the weight of the animal and is independent of its kind. For an animal of 45 kg weight the values are 13-21 A and 10 msec. Saturation of the experimental results indicates that for a human adult 20-40 A, 10 msec would be required for defibrillation. If defibrillation follows within 3 min from the inception of the fibrillations, normal cardiac activity will be restored without need for any supplementary measures; if it follows only after 7-8 min (this approaching the 10-12 min limit within which success is possible at all) arterial blood-pumping and artificial respiration to stimulate the centre of respiration is required. E. P. ZIL'KOV

ALL-Union Physiol. Soc. in Soviet and Foreign Acad.

Dr. Experimental Physiol., AMS USSR

GURVICH, N. L.

GURVICH, N. L. -- "Fibrillation and Defibrillation of the Heart." Acad Med Sci USSR. Moscow, 1956. Laboratory of Experimental Physiology for Restoration of the Organism. (Dissertation for the Degree of Doctor in Medical Sciences).

So.: Knizhnaya Letopis', No. 6, 1956.

TSUKERMAN, A.M., GURVICH, N.L.

Arrest of experimental auricular fibrillation by electrical defibrillation of the auricles [with summary in English]. *Exper.khir.* 1 no.3:38-44 My-Je '56 (MIRA 11:10)

1. Iz Instituta khirurgii imeni A.V. Vishnevskogo (dir. -- chlen-korrespondent AMN SSSR prof. A.A. Vishnevskiy) AMN i laboratorii eksperimental'noy fiziologii (zav. - prof. V.A. Negovskiy) AMN SSSR. (AURICULAR FIBRILLATION, exper. eff. of electric defibrillation in dogs (Rus))

GURVICH, N.L.

[Fibrillation and defibrillation of the heart] Fibrillatsiia i
defibrillatsiia serdtsa. Moskva, Medgiz, 1957. 249 p. (MIRA 11:4)
(ARRHYTHMIA)

GURVICH, N.L.; KOLGANOVA, N.S.; SMIRENSKAYA Ye.M. (Moskva)

Restoration of cardiac activity in clinical death from acute blood loss complicated by ventricular fibrillation [with summary in English]. Pat.fiziol. i eksp.terap. 2 no.6:30-32 N-D '58.
(MIRA 12:1)

1. Iz laboratorii eksperimental'noy fiziologii po ozhivleniyu organizma AMN SSSR (zav. - prof. V.A. Negovskiy).

(HEMORRHAGE, exper.

induction of ventric. fibrill. & clin. death, restoration of cardiac activity in dogs (Rus))

(RESUSCITATION

clin. death induced by hemorrh. & ventric. fibrill., restoration of cardiac activity in dogs (Rus))

(VENTRICULAR FIBRILLATION, exper.

induced by hemorrh. & followed by clin. death, restoration of cardiac activity in dogs)

NEGOVSKIY, V.A.; SOBOLEVA, V.I.; GURVICH, N.L.; KISELEVA, K.S.;
MACHAVARIANI, Sh.S.

Restoration of vital function in monkeys after mortal exsanguination under hypothermic conditions. Biul. eksp. biol. i med. 48
no. 11:30-34 N '59. (MIRA 13:5)

1. Iz laboratorii eksperimental'noy fiziologii po ozhivleniyu organizma (zav. - prof. V.A. Negovskiy) AMN SSSR, Moskva, i Instituta eksperimental'noy patologii i terapii (dir. - doktor biologicheskikh nauk I.A. Utkin), Sukhumi. Predstavlena deyatel'nykh chlenom AMN SSSR V.N. Chernigovskim.

(RESUSCITATION exper.)

(HEMORRHAGE exper.)

(HYPOTHERMIA, INDUCED exper.)

KAMYSZEW, A.; GURWICZ, N.L.

Chronaxy of certain motor centers of the brain stem during the course of experimental clinical death and reanimation. Acta physiol. polon. 11 no.5/6:761-763 '60.

1. Z Pracowni Fizjologii Doswiadczalnej Akademii Nauk Medycznych ZSRR, Kierownik: prof.dr W.A.Negowski. Z Zakładu Fizjologii Pomorskiej A.M. z Szczecinie, Kierownik: prof.dr E.Mietkiewski.
(BRAIN STEM physiol)
(DEATH)
(RESUSCITATION)

NEGOVSKIY, V.A.; SOBOLEVA, V.I.; GURVICH, N.L.; KISELEVA, K.S.

Restoration of the vital functions of the organism following 2
hours of clinical death under deep hypothermia; preliminary report.
Vest. AMN SSSR 15 no. 10:40-44 '60. (MIRA 14:4)

1. Laboratoriya eksperimental'noy fiziologii po ozhivleniyu
organizma AMN SSSR.

(RESUSCUTATION) (HYPOTHERMIA)

GURWICZ N. L.

KAMYSZEW, Antoni; GURWICZ, Naum L.

Chronaxy of some motor centers of the brain stem during the course of experimental clinical death and reanimation. Roczn. pom. akad. med. Swierczewski. 7:225-236 '61.

1. Z Zakladu Fizjologii Pomorskiej Akademii Medycznej Kierownik: prof. dr Eugeniusz Mietkiewski i z Pracowni Fizjologii Doswiadczalnej Przywracania do Zycia Ustroju Akademii Nauk Medycznych ZSRR w Moskwie Kierownik: prof. dr Wladimir A. Niegowski.

(BRAIN STEM physiol) (RESUSCITATION) (DEATH)

GURVICH, N.L.; KOLGANOVA, N.S.

Optimal form of impulses for electric stimulation of the heart.
Biul. eksp. biol. i med. 51 no.5:30-32 My '61. (MIRA 14:8)

1. Iz laboratorii eksperimental'noy fiziologii po ozhivleniyu
organizma (zav. - prof. V.A.Negovskiy) AMN SSSR Moskva. Predstavlena
deystvitel'nym chlenom AMN SSSR V.V.Parinym;
(HEART) (HEART BLOCK)

NEGOVSKIY, V.A.; MIL'O, A.; GURVICH, N.L.; ZOLOTOKRYLINA, Ye.S.

Indirect heart massage in sudden death caused by ventricular
fibrillation. Eksper. khir. i anest. 7 no.5:3-11 S-O '62.
(MIRA 17:10)

1. Iz laboratorii eksperimental'noy fiziologii po ozhivleniyu
organizma (zav.- prof. V.A. Negovskiy) AMN SSSR.

NEGOVSKIY, V.A.; SOBOLEVA, V.I.; GURVICH, N.L.; KISELEVA, K.S.

Deep hypothermia as a method of prolonging clinical death periods.
Biul. eksp. biol. i med. 56 no.11:39-43 0 [i.e.N.] '63. (MIRA 17:11)

1. Iz laboratorii eksperimental'noy fiziologii po ozhivleniyu organiz-
ma (zav. - prof. V.A. Negovskiy) AMN SSSR, Moskva. Predstavlena deystvi-
tel'nym chlenom AMN SSSR V.V. Parinym.

L 39684-66 GD-2

ACC NR: AP6009504 (A) SOURCE CODE: UR/0105/66/000/003/0038/0040

AUTHOR: Gurvich, N. L. (Doctor of medical sciences); Nikerboker, G. * 7
Makarychev, V. A. 8

ORG: Laboratory of Experimental Physiology on Organism Resuscitation,
AMN SSSR [N. L. Gurvich, V. A. Makarychev] (Laboratoriya eksperimental'noy
fiziologii po ozhivleniyu organizma AMN SSSR); Physical Laboratory, Surgery
Clinics, Johns Hopkins University, Baltimore, Md., USA* [Hugh Nickerboker]

TITLE: Efficiencies of a single electric impulse and ac used for defibrillation of
the heart after an electric shock 22

SOURCE: Elektrichestvo, no. 3, 1966, 38-40

TOPIC TAGS: heart defibrillation, resuscitation

ABSTRACT: The results are reported of an experimental investigation of dog-
heart defibrillation by single electric impulses and by more prolonged 50-cps a-c
trains. Seventeen dogs weighing from 6 to 15,5 kg were used as test animals;

Card 1/2

UDC: 537:61

L 39684-66
ACC NR: AP6009504

ventricle fibrillation was caused in the dogs by a 3-sec application of 127 v 50 cps power through needle electrodes. Defibrillation was attempted by using an impulse or a-c voltage applied to disk electrodes pressed against the animal's (shaven) breast in the region of its heart. A total of 68 a-c tests and 110 impulse defibrillation tests was carried out. It was found that: (1) Minimum defibrillation impulse current remains fairly constant during successive tests on the same dog; the a-c defibrillation threshold is not so constant but is fairly close to the corresponding impulse-current value; (2) The equal values of impulse and a-c (0.04--0.06 sec) currents indicate the same mechanism of defibrillation in both cases; hence, one cycle of ac (0.02 sec) is recognized as sufficient for resuscitation purposes. Orig. art. has: 3 figures.

SUB CODE: 06, 09 / SUBM DATE: 11Jun65 / ORIG REF: 003 / OTH REF: 003

Card 2/2

Bfb

Cand Med Sci

GURVICH, N. M., PHYSICIAN

Dissertation: "Blood Pressure in the Cases of Organic Affection of Brain."
12/6/50

Second Moscow State Medical Inst imeni

I. V. Stalin

SO Vecheryaya Moskva
Sum 71

FEDOT'YEV, N.P.; VYACHESLAVOV, P.M.; GURVICH, O.M.

Microhardness of nickel coatings and its relation to surface
microgeometry. Trudy LTI no.53:23-29 '59. (MIRA 14:3)
(Nickel plating) (Hardness)

GURVICH, G. N.

29279 Belaya krov' i ROE pri kleshchevom entssefalite. Trudy Molotovsk. gos. stomatol. in-ta, vyp. 8, 1949, s. 345-52. - Bibliogr: 15 nazv.

SO: Letopsi'Zhurnal'nykh Statey, Vol. 39, Moskva, 1949

S/226/62/000/002/008/010
I003/I203

AUTHOR: Gurvich, O. S. and Marmer, E. N.

TITLE: Mechanical properties of graphite used in vacuum electric furnaces

PERIODICAL: Poroshkovaya metallurgiya, no. 2, 1962, 77-86

TEXT: This work determines the tensile and creep strength of two grades of graphite "A" ППГ (PPG) and "B" ГМЭ (GMZ) produced by the Moscow Electrode Plant. The measurements were made in vacuum at room temperature and in the temperature range of 1800-2300°C. The results coincide with those published in "Materialy II Mezhdunarodnoy konferentsii po mirnomy ispol'zovaniyu atomnoy energii, Atomizdat, M 1959 (Materials of the II International Conference on Peaceful Use of Atomic Energy, Atomizdat, M 1959)". There are 8 figures and 2 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut elektromicheskogo oborudovaniya (All-Union Scientific Investigation Institute of Electrothermal Equipment)

SUBMITTED: May 15, 1961

Card 1/1

L 09147-67 EWP(e)/EWT(m) WW/WH

ACC NR: AR6027495

SOURCE CODE: UR/0137/66/000/004/B003/B003

AUTHOR: Rusin, S. P.; Gurvich, O. S. 43

TITLE: Determining the emittance of graphite at high temperatures

SOURCE: Ref. zh. Metallurgiya, Abs. 4B17

REF SOURCE: Elektrotermiya. Nauchno-tekhn. sb., vyp. 46, 1965, 31-33

TOPIC TAGS: graphite, emissivity constant, temperature

ABSTRACT: A tubular graphite specimen 300 mm long and 14/8 mm in diameter was heated by an alternating electric current. An opening 0.5 mm in diameter was made in the central section of the tube. The true and brightness temperatures of the tubular surface were determined from the radiation escaping through this opening after taking appropriate corrections into consideration. The experiments were done in a vacuum of 10^{-3} - 10^{-4} mm Hg. The specimen to be tested was preheated and held at a temperature of 1600-2000°K for 10-15 hours to stabilize the surface state. It is shown that the absolute value of the integral hemispherical emittance ϵ_t is somewhat reduced when the spectral radiation interval is expanded into the longer wave region. The method of least squares gives temperature relationships of ϵ_t and ϵ_λ (monochromatic normal emit-

Card 1/2

UDC: 669:536.3

L 09147-67

ACC NR:

AR6027459

495
0
tance) for PPG graphite which may be conveniently given in the form of empirical expressions: $\epsilon_t = (0.70 \pm 0.02) + (1.7 \pm 1.1) \cdot 10^{-5} T$, $\epsilon_\lambda = (0.95 \pm 0.02) - (4.0 \pm 1.4) \cdot 10^{-5} T$. 2 illustrations. V. Pryanikova. [Translation of abstract]

SUB CODE: 20, 11

Card 2/2 not

MARMER, E.N., inzh.; GURVICH, O.S., inzh.

Study of friction pairs for operation in vacuum electric
furnaces. Vest. elektroprom. 31 no.9:20-25 8 '60. (MIRA 15:5)
(Electric furnaces)

GURVICH, O. S., and RUSIN, S. P.

"Heat conductivity of materials in vacuum and inert gases"

Seminar on production methods, physical properties, and electron structure of refractory metals, compounds, and alloys, organized by the Institute of Powder Metallurgy and Special Alloys AS Ukr SSR, Kiev, 25-29 April 1963. (Teplofizika vysokikh temperatur, No. 1, 1963, p. 156)

GURVICH, O.S.; MARMER, E.N.

Mechanical properties of graphite used in electric vacuum furnaces.
Porosh. met. 2 no.2:77-86 Mr-Ap '62. (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrotermi-
cheskogo oborudovaniya.

(Electric furnaces--Equipment and supplies) (Graphite)

L 1069-64

EPR/EPF(c)/EWP(q)/EWT(m)/EWP(b)/BDS AFFTC/ASD/AFGC

Ps-4/Pr-4 JD/WH/K/DJ

ACCESSION NR: AT3007930

S/2957/63/000/000/0225/0231

AUTHORS: Marner, E. N.; Gurvich, O. S.

TITLE: The determination of the coefficient of friction of certain steams from materials under a vacuum up to 10 minus sup 4 mm Hg during temperatures to 1200C.

SOURCE: Primeneniye vakuuma v metallurgii; trudy* Tret'yego soveshchaniya po primeneniyu vakuuma v metallurgii. Moscow, 1963, 225-231.

TOPIC TAGS: vacuum furnace, 1Kh18N9T steel, Kh23N18 steel, graphite, fluoro-ethylene, steel-melting furnace, steel, austenite steel, heat-resistant steel.

ABSTRACT: In contemporary mechanized vacuum furnaces the components of mechanisms work in a regime of dry friction, since liquid grease evaporates under vacuum and high temperature conditions. The authors investigated anti-frictional graphite of types D and E in steam with heat-resistant austenite steel 1Kh18N9T and Kh23N18. They determined the coefficient of friction of graphite E over graphite B, fluoro-ethylene F403 over steel 1Kh18N9T and Kh23N18 and cast iron with grease from molybdenum disulfate. Studies on the influences of various factors (high vacuum, temperature, specific load, velocity of rotation) on the friction of graphite with heat-resistant steel yielded the following results: the coefficient of

Card 1/2

L 1069-64

ACCESSION NR: AT3007930

2
friction is higher in atmosphere than under vacuum; the coefficient of graphite of types D and E over steel 1Kh18N9T and Kh23N18 to a significant degree depends on graphite characteristics; the coefficient in both cases remains the same and increases insignificantly with growth of load; independently of specific loads and vacuum at 800 degrees, an increase in velocity of rotation causes an enlargement in the coefficient of friction. Orig. art. has: 6 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 12Jul63

ENCL: 00

SUB CODE: ML

NO REF SOV: 002

OTHER: 000

Card 2/2

Gurvich, O.S.

O.S. Gurvich. Heat conductivity of loose refractory powders in vacuum and inert gas.

Title: Seminar on refractory metals, compounds, and alloys (Kiev, April 1963)

Source: Atomnaya energiya, v. 15, no. 3, 1963, 266-267

L 53604-65 EWG(j)/EWT(d)/EWP(e)/ENT(m)/EWP(w)/EPF(c)/ENP(l)/EWA(d)/EWP(v)/EPR/
T/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(l) Pf-4/Pr-4/Pe-4 JD/MM/WH

ACCESSION NR: AP5011308

UJ/0122/65/000/004/0050/0051
621.891

AUTHORS: Gurvich, O. S. (Engineer); Molchanov, P. N. (Engineer)

TITLE: Device for determining the coefficient of friction at temperatures to 2500C

SOURCE: Vestnik mashinostroyeniya, no. 4, 1965, 50-51

TOPIC TAGS: coefficient of friction, graphite

ABSTRACT: A device is described for determining the coefficient of friction of graphite in a vacuum to 10^{-3} - 10^{-5} mm Hg and at temperatures to 2500C. It consists of a hermetically sealed cylinder in which is fastened a graphite sheet. A graphite sphere which is drawn across the sheet is attached to the end of a weighted rod mounted on a carriage. The carriage is coupled by a flat spring to which a high-temperature strain gauge is glued to a shaft extending through the cover of the cylinder. The strain gauge is used to determine the frictional force. Measurements of the temperature from 200-1000C are made by using a chromel-alumel thermocouple. Temperatures from 1000-2500C are determined with an optical pyrometer. The dependence of the coefficient of friction of graphite on temperature in the range 20-2200C in a vacuum of 10^{-3} mm Hg obtained by using the device is shown graphically.

Card 1/2

L 53604-65

ACCESSION NR: AP5011308

Orig. art. has: 5 diagrams.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: YES, AT

NO REF SOV: 000

OTHER: 000

BAB
Card 2/2

IZHEVSKIY, K.M.; GURVICH, O.Ye.

Vesicular dermatitis caused by contact with plants. *Pediatrics*,
no.5:86-87 S-O '55. (MLRA 9:2)

1. Iz detskogo otdeleniya statsionara po kozhnym boleznyam (sav. K.M. Izhevskiy) pri 5-m kozhno-venerologicheskoye dispanzere (glavny vrach G.A. Plotkin) Stalinskogo rayona Moskvyy.
(DERMATITIS, CONTACT, etiol. and pathogen. plants)

GURVICH, R.A., inzh.; KOLOMIYETS, V.V., inzh.

Cutting chip-curling grooves on hard-alloy plates and cutters
by the electric spark method. Mashinostroenie no.5:38-40
S-O '65. (MIRA 18:9)

GURVICH, P.M.

GURVICH, P.M., inzhener; KOSMATOV, F.F.

Narrow-gauge railroad ties of prestressed concrete. Torf.prom.
34 no.5:12-14 '57. (MIRA 10:10)

1. Gosudarstvennyy institut po proyektirovaniyu zavodov torfyanoy
promyshlennosti.

(Prestressed concrete) (Railroads--Ties, Concrete)

MINDAROV, M.T.; GURVICH, R.D.

Self-locking nut in a derrick. Mash. i neft. obor. no.7:34-35 '63.
(MIRA 17:1)

1. Trest "Pechorneftegazrazvedka", g. Ukhta.

Producing brick from a silica mass by the ramming method. N. M. Gurvich and S. M. Rosenblit. *Stronitel. Material.* 1933, No. 1, 37. K. K. Stefanowich

A S D - S L A METALLURGICAL LITERATURE CLASSIFICATION

GURVICH, R. M. Cand. Tech. Sci.

Dissertation: "Investigation of the Constructional Properties of Clay Tiles and Optimum Technological Parameters." Moscow Inst of Engineers of Municipal Building, 25 Mar 47.

SO: Vechernyaya Moskva, Mar, 1947 (Project #17836)

NAUMOV, M.M.; YUSHEVICH, M.O., redaktor; GURVICH, B.M., nauchnyy
redaktor; KONVISHA, L.I., redaktor.

[Tunnel ovens for brickmaking] Tunnel'nye pechi kirpichnoi pro-
myshlennosti. Moskva, Gos. izd-vo lit-ry po stroit. materialam,
1953. 150 p. (MIRA 7:7)
(Kilns)

GURVICH, R.M.

KITAYTSEV, V.A.; GURVICH, R.M.; KOROL'KOV, I.V.; GINZBURG, D.B., doktor
tekhnicheskikh nauk, professor, retsenzent; NOKHRATYAN, K.A.,
kandidat tekhnicheskikh nauk, nauchnyy redaktor; SOKOL'SKIY, I.F.,
redaktor; LYUBKOVSKAYA, N.I., tekhnicheskiy redaktor

[Heat engineering and heating installations in the building materials
industry] Teplotekhnika i teplovye ustanovki v promyshlennosti
stroitel'nykh materialov. 3-e izd. perer. i dop. Moskva. Gos. izd-vo
lit-ry po stroitel'nykh materialam, 1954. 495 p. (MLRA 8:4)
(Heat engineering) (Building materials industry)

GORBATOV, Vladimir Ivanovich; GURVICH, Ruvim Mikhaylovich; BARANOV, L.A.,
redaktor; TARAYEVA, Ye.K., redaktor izdatel'stva; BOROVNEV, N.K.,
tekhnicheskiy redaktor

[Safety engineering in concrete and reinforced concrete work]
Tekhnika bezopasnosti pri proizvodstve betonnykh i zhelezobetonnykh
rabot. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956.
30 p. (MLBA 10:1)

(Concrete construction--Safety measures)

GURVICH, Ruvim Mikhaylovich, kand. tekhn.nauk, dots.; SHNEYDER,
Ye.B., red.

[Manufacturing large sand-lime concrete products; a
lecture with slides] Proizvodstva krupnorazmernykh sili-
katobetonnykh izdelii; lektsiia s diafil'mom. Moskva,
Gosstroizdat, 1963. 12 p. (MIRA 17:9)

1. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut
organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi
stroitel'stvu.

BOGOVOY, M.I.; Inreat Gosudarstvennoy premii dots., red.;
GURVICH, R.M., red.; CHERTOK, M.Yu., red.; BARANOVA, O.N.,
red.; IOTINOVA, TS.B., red.

[Improving the quality of clay building bricks] Uluchshenie
kachestva glinianogo stroitel'nogo kirpicha. Moskva, Leg-
kaya industriya, 1964. 146 p. (MIRA 18:5)

1. Vsesoyuznoye khimicheskoye obshchestvo im. D.I. Mandeleeva.
TSentral'noye i Moskovskoye pravleniya. 2. Moskovskiy inzhenerno-
stroitel'nyy institut im. V.V. Kuybysheva (for Rogovoy).

GERTSEN, Petr Aleksandrovich [1871-1947]; GURVICH, R.M. [translator]

[Causes of death following bilateral vagotomy in their relation to conditions of survival] Prichiny smerti posle dvustoronnei vagotomii v ikh sviazi s usloviiami vyzhivaniia. Moskva, Medgiz, 1960. 86 p.
(MIRA 14:7)

(VAGUS NERVE—SURGERY)

(DEATH—CAUSES)

GURVICH, Raisa Pavlovna; KOTOVSKIY, G.G., otv.red.; GARMSSEN, O.M.,
red.izd-va; NEGRIMOVSKAYA, R.A., tekhn.red.

[The agriculture and peasantry of India] Sel'skoe khoziasstvo
Indii i polozhenie krest'ianstva. Moskva, Izd-vo vostochnoi
lit-ry, 1960. 214 p. (MIRA 13:11)
(India--Agriculture) (India--Peasantry)

BATALOV, Anatoliy Leonidovich; GURVICH, Raisa Pavlovna; KOTOVSKIY, G.G.,
otv. red.; GARSEN, O.M., red. izd-va; BERESLAVSKAYA, L.Sh.,
tekhn. red.

[Can India feed itself?] Mozhet li Indiiia prokormit' sebia?
Moskva, Izd-vo vostochnoi lit-ry, 1961. 97 p. (MIRA 14:12)
(India—Agriculture)

GURVICH, Raisa P.

"Agrotechnics in developing countries"

report to be submitted for the United Nations Conference on the
Application of Science and Technology for the Benefit of the Less
Developed Areas - Geneva, Switzerland, 4-20 Feb 63.

~~Khatuntseva, A. Ya., Gurvich S. I.~~

21-6-12/22

AUTHORS: Khatuntseva, A.Ya., Romodanova, A.P., and Gurvich (Hurvich), S.I.

TITLE: Tin-Bearing Deposits of the Northern Outskirts of the Ukrainian Crystalline Shield (Olovonosnyye rossypi severnoy okrainy Ukrainского kristallicheskogo shchita)

PERIODICAL: Dopovidi Akademii Nauk Ukrain'skoi RSR, 1957, No 6, pp 584-586 (USSR)

ABSTRACT: The paper presents data refuting the established notion that it is hopeless to survey for tin within the boundaries of the Ukrainian SSR. During the last years, cassiterite deposits were discovered in the northern outskirts of the Ukrainian SSR and are now being surveyed. The richest tin-bearing deposits having the most regular outlines are associated with the buried negative forms of relief within the watershed spaces of the Poles'ye peneplain. Tin-bearing sands occur usually on kaolins at the base of Paleogene glauconite-containing sediments. The content of cassiterite in the productive layer varies from 100 to 900 g per m³, amounting sometimes to 2 to 4 kg/m³. The mineralogical study of the erosion crust in the region of deposit occurrence has shown that cassiterite is not an accessory mineral. Of the main importance will apparently be tin-ore

Card 1/2

21-6-12/22

Tin-Bearing Deposits of the Northern Outskirts of the Ukrainian Crystalline Shield

bodies of the quartz-cassiterite formation accompanied with tantalum-niobium, zirconium-hafnium, tungsten, or some other mineralization.

There are 4 Slavic references.

ASSOCIATION: Institute of Geological Sciences of the AN Ukrainian SSR
(Instytut geolohichnykh nauk AN URSR)

PRESENTED: By N.P. (M.P.) Semenenko, Member of the AN
Ukrainian SSR

SUBMITTED: 8 March 1957

AVAILABLE: Library of Congress

Card 2/2

GURVICH, S. I.

SOV/21-59-6-20/27

(
AUTHORS: Hurvyeh, S. I. (Gurvich, S. I.)
~~Khatuntseva, A. Ya.~~ / Levkivs'ka, N. Yu. (N. Yu. Levkovskaya) and

TITLE: On a Mineralogical Find of Tungsten Minerals in Volyn'

PERIODICAL: Dopolvidi Akademii Nauk Ukraini's'koi RSR, 1959, Nr 6,
pp 659 - 661 (USSR)

ABSTRACT: The authors report on a find of tungsten minerals made in the North-Western section of the Ukrainian crystalline shield in 1956. The wolframite encountered for the first time was in foliated pieces with black, nontransparent grains. Some pieces had, however, dark red and red color, ranged from nontransparent to almost transparent. In some instances, the wolframite was found in combination with the quartz, and in separate instances in combination with the arsenopyrite. The majority of grains were within 0.6 - 0.1 mm, some reached a size of 2 - 3 mm. The chemical examinations made by B. V. Myrs'ka (table 1), and the x-ray examinations made by A. O. Karpenko (table 2), confirmed the materials as being basically wolframite, combined with an almost equal number of ferberite and huebnerite molecules.

Card 1/2

SOV/21-59-6-20/27

On a Mineralogical Find of Tungsten Minerals in Volyn'

Leaving out some insignificant impurities, the two chemical examinations have established the following crystalline chemical formulas:

1) $(\text{FeO}, 41 \text{ MnO}, 59) \text{WO}_4$; 2) $(\text{FeO}, 46 \text{ MnO}, 54) \text{WO}_4$.

The x-ray examination was done with the use of Fe radiation in a Debay chamber of 57.3 mm in diameter, with a Mn filter, at an exposure of 12.5 hours. Isolated scheelite grains have also been found. Under the microscope they appeared to be of more or less isometric forms, of even optical weight, were found to be positive and possessing a rather low index of double refraction, yet an index of single refraction exceeding 1.78. There are 2 tables and 1 photo.

ASSOCIATION: Institut geologicheskikh nauk AN UkrSSR (Institute of Geological Sciences of the AS UkrSSR)

PRESENTED: By N. P. Semenenko, Member, AS UkrSSR

SUBMITTED: July 8, 1958

Card 2/2

GURVICH, S.I.

New data on the tin potential of the Ukrainian crystalline shield.
Izv. vys. ucheb. zav.; geol. i razved. 3 no.9:83-86 S '60.
(MIRA 13:12)

1. Ministerstvo geologii i okhrany neдр SSSR.
(Dnieper Valley---Tin ores)

BUTKEVICH, T.V.; GURVICH, S.I.

Necessity of considering tungsten and molybdenum deposits as sources of beryllium. Razved. i okh. nedr 26 no.9:11-14 S '60. (MIRA 15:7)

1. Glavnoye upravleniye geologii i okhrany nedr pri Sovete Ministrov RSFSR (for Butkevich). 2. Ministerstvo geologii i okhrany nedr SSSR (for Gurvich).

GURVICH, S.I.

New titanium-bearing area in the Ukraine. Izv. vys. ucheb. zav.;
geol. i razv. 4 no.3:58-60 Mr '61. (MIRA 14:6)

1. Ministerstvo geologii i okhrany nedr SSSR.
(Ukraine—Titanium ores)

GURVICH, S.I.; BRUSNITSYNA, N.V.; DUSYATSKIY, V.A.; LUN'KO, V.P.

New promising type of beryllium-zinc mineralization. Razved. i
okh. nedr 28 no.8:1-3 Ag '62. (MIRA 15:8)

1. Geologorazvedochnyy trest No.1.
(Genthelvite)

GURVICH, S.I.; KAZARINOV, L.N.; MALASHEVSKIY, A.N.

Discovery of titanium-zirconium placers in central Ciscaucasia.
Dokl.AN SSSR 144 no.3:619-621 My '62. (MIRA 15:5)

1. Predstavleno akademikom D.I.Shcherbakovym.
(Ciscaucasia—Geology, Stratigraphic)

GURVICH, S.I.; TROKHACHEV, P.A.

Concerning B.I.Kogan's book "Economic outlines on rare earths."
Izv. AN SSSR.Ser.geol. 28 no.5:104-105 My '63. (MIRA 17:4)

1. Geologorazvedochnyy trust No.1 Ministerstva geologii i okhrany
nedr SSSR, Moskva.

BYBOCHKIN, A.M.; BYKHOVSKIY, L.Z.; GURVICH, S.I.; CHETYRBOTSKAYA, I.I.

Tungsten deposits as a new source of tantalum. Razved. i okh.
nedr 29 no.7:10-12 JI '63. (MIRA 16:9)

1. Gosudarstvennyy geologicheskii komitet SSSR (for Bybochkin).
2. Geologo-geokhimicheskii trest (for Bykhovskiy, Gurvich, Chetyrbotskaya).

(Tungsten ores) (Tantalum)

GURVICH, S.I.; ZUBKOV, L.B.; GALETSKIY, L.S.

Genthelvite from silicified syenites. Dokl. AN SSSR 150
no.5:1123-1124 Je '63. (MIRA 16:8)

1. Predstavleno akademikom D.I.Shcherbakovym.
(Syenite) (Genthelvite)

BYBOCHKIN, A.M.; BYKHOVSKIY, L.Z.; GURVICH, S.I.; CHETYRKOVSKAYA, I.I.

Bismuth in tungsten deposits. Razved. i okh. nedr 30 no.2:
10-15 F '64. (MIRA 17:8)

1. Gosudarstvennyy geologicheskii komitet SSSR i Geologo-
geokhimicheskii trest.

GURVICH, S.I.; KAZANINOV, L.N.; KHMARA, N.V.

[Ancient rare-metal-titanium placers, methods of
prospecting and evaluating them] Drevnie redkometal'no-
titanovye rossypi, metody ikh poiskov i otserki. Mo-
skva, Nedra, 1964. 169 p. (MIRA 17:12)

GORVICH, B.I.; ZUDKOV, L.B.; GALETSKIY, L.S.

Geological and mineralogical characteristics of beryllium
mineralization related to genthelvite. Sov.geol. 8 no.2:29-
44. F '65. (MIRA 18:12)

GURVICH, S.I.

Find of willemite containing beryllium in the U.S.S.R. Dokl.
AN SSSR 153 no.3:681-683 N '63. (MIRA 17:1)

1. Ministerstvo geologii i okhrany neдр SSSR. Predstavleno
akademikom D.I. Shcherbakovym.

ARIYEV, A.M.; BEKKEROV, G.Ye.; LEBEDEV, B.M.; GUREVICH, S.I.

Further findings on application of thalium plaster in the treatment of mycoses of the part of the head covered with hair. Vest. vener., Moskva no.1:47-48 Jan-Feb 1953. (GLML 24:2)

1. Professor for Ariyevich; Candidate Medical Sciences for Bekkerov.
2. Of the Mycology Department (Head -- Prof. A. M. Ariyevich) of the Central Dermato-Venereological Institute (Director -- Candidate Medical Sciences N. M. Turanov) of the Ministry of Public Health USSR and of Moscow Mycological Dispensary (Head -- V. N. Pentkovakaya; Consultant Prof. A. M. Ariyevich).

BOGAREV, K.S.; SATAROVA, N.A.; GURVICH, S.M.

Using xanthogenates to break the dormancy of potato tubers.
Izv.AN SSSR.Ser.biol. no.3:446-450 My-Je '59. (MIRA 12:9)

1. Institute of Plant Physiology, Academy of Sciences of the
U.S.S.R., Moscow.

(POTATOES) (DORMANCY (PLANTS)) (XANTHOGENATES)

RAKITIN, Yu.V.; BOKAREV, K.S.; KRAFT, V.A.; RAKITINA, Z.G.; GEYDEN, T.M.
GURVICH, S.M.

New defoliant and desiccants for cotton. Fiziol. rast. 8
no.4:506-511 '61. (MIRA 14:11)

1. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy
of Sciences, Moscow.

(Cotton)
(Defoliation)

GURVICH, S.M., inzh.; SHTERENBERG, M.I., inzh.

Counter-flow ion exchange. Teploenergetika 8 no.12:66-70 D
'61. (MIRA 14:12)

1. Tsentral'nyy nauchno-issledovatel'skiy kotloturbinnyy institut,
Moskovskoye otdeleniye.

(Ion exchange)

POGOSOV, V.S., dotsent; GURVICH, S.M.

Conservative treatment of patients affected by limited labyrinthitis caused by cholesteatoma of the middle ear. Nauch.trudy Chetv.Mosk.gor.klin.bol'. no.1:283-286 '61. (MIRA 16:2)

1. Iz otolaringologicheskoy kliniki Tsentral'nogo instituta usovershenstvovaniya vrachey (dir. - prof. I.I. Potapov), na baze Moskovskoy gorodskoy klinicheskoy bol'nitsy No.4 (glavnyy vrach G.F. Papko).

(LABYRINTH (EAR)--DISEASES) (EAR--TUMORS)

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CH

Cyanoethylation of acetone. A. P. Terent'ev and S. M. Gurvich, *Vestnik Moskov. Univ.* 5, No. 5, Ser. Fiz.-Mat. i Estest. Nauk No. 3, 47-51 (1950); cf. C.A. 42, 4942h. To 470 g. boiling Me₂CO contg. 4 g. NaOH was added with stirring over 1 hr. 212 g. CH₂=CHCN; after refluxing 2 hrs., the mixt. was acidified with HCl and the org. layer gave on distn. approx. 50% undistillable solid residue as well as 35 g. AcCH₂CH₂CH₂CN, b_p 93-8°, b_m 238-40°, d₄²⁰ 0.9747, n_D²⁰ 1.4330 (semicarbazone, m. 131° (from EtOH)), and 48.5 g. AcCH(CH₂CH₂CN)₂, b_p 196-9°, d₄²⁰ 1.0485, n_D²⁰ 1.4680; the distn. residue on crystn. from aq. MeOH gave about 24% AcC(CH₂CH₂CN)₃, m. 152° (cf. Brunson and Rieker, C.A. 37, 1379). Reduction of AcCH₂CH₂CH₂CN with Na and BuOH gave 3-methylpiperidine, b_m 118-19°, d₄²⁰ 0.8412, n_D²⁰ 1.4430; picrate, m. 164° (from H₂O); [Lipp, Ann. 289, 210 (1896), gives m. 134-5°, while Marchwald, Ber. 29, 43 (1896), gives m. 127-8°]; HCl salt, m. 207° (from dioxane); oxalate, m. 125° (from EtOH-Et₂O). The higher fraction of the reduction products yielded 6-amino-2-hexanol, b_p 98-100°, d₄²⁰ 0.9365, n_D²⁰ 1.4702; HCl salt, hygroscopic solid; picrate and flavanate, liquids; oxalate, m. 100° (from EtOH-Et₂O); 1-naphthylureide, m. 107° (from aq. MeOH). G. M. Kosolapoff

1967

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Priority of A. A. Koltz in the establishment of the structure of glucose. A. P. Terent'ev and S. M. Gurvich
Uspekhi Khim. 19, 128 (1950) N. Thon

1957

GURVICH, S. M.

"Use of Acrylonitril in the Synthesis of Nitrogen-Containing Heterocyclic Compounds." Sub 23 Nov 51, Moscow Order of Lenin State U niversity M. V. Lomonosov.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

Chem. Chem. Sci.

TERENT'YEV, A.P.; KOST, A.N.; GURVICH, S.M.

Condensation of acrylonitrile with some dienes. Vestnik Moskov.
Univ. 6, No.12, Ser. Fiz.-Mat. i Estestven. Nauk No.8, 79-83 '51.
(CA 47 no.14:6877 '53)

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Syntheses with acrylonitrile. XIII. γ -Acetobutyronitrile and products of its reduction. A. P. Terent'ev and S. M. Gurvich (Moscow State Univ.), *Zhur. Obshchei Khim.* (J. Gen. Chem.) 21, 1632-7 (1951); cf. C.A. 42, 4942a; 46, 19654. --Addn. of CH_2CHCN (212 g.) over 1 hr. to 470 g. stirred, refluxing Me_2CO and 4 g. solid KOH refluxing 2 hrs., cooling, acidification with HCl, sepn. of the small aq. layer, and distn. gave 35 g. $\text{AcCH}_2\text{CH}_2\text{CH}_2\text{CN}$ (I), b_p 93-8° (crude), b_m 238-40°, d₄²⁰ 0.8747, n_D²⁰ 1.4330, can not be steam-distd., gives the CHH test. Other products include $\text{AcCH}(\text{CH}_2\text{CH}_2\text{CN})_2$ (48.5 g.), b_p 196-9°, d₄²⁰ 1.0485, n_D²⁰ 1.4780, which also gives the CHH test, and a cryt. undistillable residue of $\text{AcC}(\text{CH}_2\text{CH}_2\text{CN})_3$, m. 152°. When 17 g. I in 400 g. boiling BuOH is treated with 21 g. Na, the usual treatment yields 2.3 g. 2-pipecoline, b_p 118-19°, d₄²⁰ 0.8412, n_D²⁰ 1.4430 [picrate, m. 164° (from H₂O); HCl salt, m. 207°; oxalate, softens at 108°, m. 125°;

Aspartate, orange oil; PbSO_4Cl gives an alkali-insol. oil; $1\text{-C}_6\text{H}_7\text{NCO}$ yields the corresponding urea deriv., m. 218°], and some 17% 6-amino-2-hexanol, b_p 98-100°, d₄²⁰ 0.9385, n_D²⁰ 1.4702 (HCl salt, hygroscopic crystals; picrate and Aspartate, oils; oxalate, m. 100°; PbSO_4Cl yields an alkali-insol. oil; $1\text{-C}_6\text{H}_7\text{NCO}$ gives a compd., $\text{C}_8\text{H}_{12}\text{O}_2\text{N}_2$, m. 107°). The amino alc. apparently cyclizes in part during the reaction to yield the pipecoline. The cyanoethylation reaction of Me_2CO is more extensive with increase of temp., and regardless of reagent proportions, conditions of stirring, or order of mixing all 3 possible products always form, the tri-addn. product being always formed in 24% or higher yields.

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Syntheses with acrylonitrile XVI. Mechanism of
graft-methylation reaction. A. P. Litvinov, A. N. Kost-
lov, S. M. Gurlich, Moscow State Univ., *Zhur. Mekh.*
~~A. N. Gurlich~~, 1960; cf. C.A. 47, 1378. The mecha-
nism of the graft-methylation reaction is discussed on an
example which takes into account the normal polymerization
of acrylonitrile. I. The trans-grafted chain section is
rather small and requires heating; the nature of the side link
is more important than that of NC. II. Acrylonitrile II,
propagated by metal-vanadate ion catalyst of Kothony
and Matusik, J. 42, 1952, in its origin it is necessary
that the MeC group be present in the initial "Mv".

the product has a blue color, characteristic of I and PhCH₂CN do not react with H₂O₂ at 40–50°, but at 60–65° a violent reaction occurs, hence it must be added first. It was prepared by the reaction of 1.0 g. (0.004 mole) of *trans*-2,3-dibromocyclopentanone in 250 ml. CCl₄ and 1 ml. fresh H₂O₂ treated dropwise with stirring and heating at 25–30° over 3 hrs. with 58 g. (1.44 mole) of crystals form early, the addn. of I is interrupted, the mixt. warmed to 40° and 5–6 drops more II added, and the mixt. was stirred 2 hrs. at 40–50°, let stand overnight, and filtered, yielding 95–7% 2,3,3,5-tetrakis(2-cyanoethyl)cyclopentanone. m. 175–5°. Trigon B catalyst gave the same result. I with AcPh in CCl₄ with II catalyst at 20° gave 75% BrC(CH₃)CH₂CN, m. 120–9.5°. Nitrog. H in dioxane soln. at 30–40° gave a 57% addn. and BaCO₃-CH₃Ph catalyst (III) in Me₂COH at 30–40° 64% yield. I and PhCH₂CN with II in CCl₄ at 25–30°

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Synthesis with acrylonitrile. XVI. Mechanism of cyanoethylation reaction. A. P. Izrael'ev, V. N. Kost' and S. M. Gurvich. J. Gen. Chem. U.S.S.R. 22, 8007-83 (1952) (Engl. translation).—See C.A. 47, 8063d, H. I. H.

Syntheses with acrylonitrile XVII. Synthesis of some homologs of piperidine. A. P. Terebin and S. M. Chervinskii, *Shornik State Chemical Khim., Akad. Nauk S.S.S.R.* 401-8 (1953); cf. C.A. 47, 2602h; 48, 5087g. To 40 g. iso-Pr. CO and 1 ml. 50% aq. NaOH was added at 80° over 1 hr. 26.5 g. $\text{CH}_2=\text{CHCN}$ (1a); after 3 hrs. at 80° the liquid was decanted and acidified with HCl; the org. layer was decanted, dried, and distd. yielding 28% $\text{Me}_2\text{CHCOCH}_2\text{CH}_2\text{CH}_2\text{CN}$ (1b), b_p 123-6°, d_4^{20} 0.8226, n_D^{20} 1.4435; some 5.2 g. crude ($\text{NCCCH}_2\text{CH}_2\text{CMe}_2\text{CO}$), b_p 160-80°, was also obtained. 1b (22 g.) in 400 ml. hot BuOH was treated with 31 g. Na, yielding after the usual hydrolytic treatment and steam distn. of the solvent, 39% 3,3-dimethyl-2-isopropylpiperidine, b_p 69-70°, d_4^{20} 0.8601, n_D^{20} 1.4592 (picrate m. 201°), and 1.2 g. 7-amino-2,4,4-trimethyl-3-heptanol, m. 3°, m. 76° (from EtOH-Et₂O); mono-1-naphthylurethan, m. 262° (from AcOH). To 22.2 g. iso-PrEtz was added a soln. of 0.2 g. Na in 6 ml. EtOH and the mixt. was treated over 0.5 hr. with 17 g. 1a; after stirring an addnl. hr. at room temp. the mixt. was dild. with Et₂O, filtered, and the filtrate was washed with dil. AcOH, dried and distd. to give 89% $\text{Me}_2\text{CHCH}_2\text{CH}_2\text{CH}_2\text{CN}$, b_p 159-63°, d_4^{20} 1.0478, n_D^{20} 1.5204.

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This (17.5 g.) treated as above with 22 g. Na in 150 ml. BuOH gave 13% 3,3-dimethyl-2-phenylpiperidine, b_p 133-134°, d_4 0.9516, n_D^{20} 1.5201 (picrate and flavinate could not be crystallized); 1-methylurethan, m. 217°. To 10 g. cyclohexanone and 0.1 g. Na in 2.5 ml. EtOH was added in 2 hrs. 22 g. Ia; the mixt. diss. with EtOH, filtered, and the filtrate washed with dil. AcOH, dried, and distill. yielding 3.3 g. 2,4-dimethylcyclohexanone (I), b_p 129-133°, d_4 1.0181, n_D^{20} 1.4714, and 1.2 g. 2,2-bis(2-methylcyclohexyl)cyclohexanone, b_p 210-5°, m. 68° (from C.H.I.); the ppt. formed in the original reaction mixt. was an untested yield of 2,2,6,6-tetrakis(2-methylcyclohexyl)cyclohexanone, m. 161-5° (from Me₂CO). I (6 g.) reduced with 10 g. Na in BuOH to 1.0 g. decarboxyquinoline, b_p 67-72° (crude), m. 46° (from ligroine, in 0.05 g. yield); picrate, $C_{12}H_{10}N_4O_6$, m. 156°. XVIII. Reaction of acrylonitrile with adipic diazo compounds and with phenylazide. S. M. Gorevich and A. P. Terent'ev. *Ibid.* 409-14; cf. preceding abstr. -- To a mixt. of 35 ml. 40% aq. KOH and 100 ml. EtOH was added at 5° in small portions 10 g. N-nitrosomethylurea, the EtOH layer was decanted, dried 3 hrs. over KOH, and treated with cooling with 2.3 g. Ia; evapn.

gave 5.9 g. viscous product consisting of $HN(CH_2CH_2C(CN)N$ (II), b_p 116-18°, b_p 91-4°, d_4 1.135°, n_D^{20} 1.5100, which does not form a picrate; the product decamp. above 100° and on heating with alkalis it evolves NH_3 . II (0.5 g.) in 500 ml. BuOH was added at once to 27.6 g. 5% yielding, after the usual treatment, 1,2,4-triazinobutene, m. 221° (decamp.). To 3.75 g. EtOAc was added 2.0 g. Ia with cooling at about 40° (without cooling the reaction is explosive); after 50-10 min. the mixt. began to deposit a solid product, which was collected on the following day after partial evapn. There was obtained in all 65% 5-methylcyclopentadiene-1-carbonitrile, m. 99° (from EtOH). Heating 50.5 g. PhNH₂ and 31.8 g. Ia on a steam bath 4 hrs. gave a vigorous reaction with N evolution; distn. gave 73% PhNH:CHCH₂CN (III), b_p 115°, d_4 1.0902, n_D^{20} 1.5570. When 11.9 g. PhNH₂ and 5.8 g. Ia were kept at room temp. in sealed ampul 12 days, however, there was obtained 91% 1-phenyl-3,4,5-triazine-4-carbonitrile, decamp. 98°, which on strong heating gave 65% III. Hydrolysis of III with 1:4 HCl at reflux gave PhNH₂. Reduction of 14.4 g. III in 110 ml. EtOH by addn. of this mixt. to 23 g. powdered Na in MePh, gave after the usual treatment PhNHCH₂CH₂CH₂NH₂ (IV), b_p 134-5°, d_4 1.0332, n_D^{20} 1.5747 [picrate, decamp. 174-5°; cf. Goldenring, *Ber.* 23, 1168 (1890)]. Refluxing 46.5 g. PhNH₂, 27.5 g. Ia and 30 g. PhNH₂.AcOH 12 hrs. at 140-50° gave on distn. 66% PhNH:CH₂CH₂CN, b_p 140-2°, m. 48° (from dil. EtOH); this (29.2 g.) reduced in 140 ml. EtOH with 27.6 g. Na and 0.5 g. K in 120 g. MePh, as above, gave 47% IV, identical with the above specimen. G. M. Kosolapov

GURVICH, S. M. and TEREHT'YEV, A. P.

Syntheses by Means of Acrylonitrile. XVIII. Interaction of Acrylonitrile with Fatty Diazocompounds and with Phenylazide, page 409, Sbornik statey po obshchey khimii (Collection of Papers on General Chemistry), Vol I, Moscow-Leningrad, 1955, pages 762-766.

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Catalytic dehydrogenation of piperidines and their homologs. A. P. Terent'ev and V. M. Yanina, *Izv. Akad. Nauk SSSR, Ser. Khim.* 1966, 1366. *Chem. Abstr.* 1967, 58:12662. *Chem. Zvesti.* 1967, 21:111. The catalytic dehydrogenation of piperidine and its homologs with KMnO_4 in acetic acid at 110–120°C. in a catalytic amount whose physical constants and color were close to those of pyridine, but the product rapidly decolorized with KMnO_4 , probably owing to the presence of a dihydro-pyridine. Similarly treated 4,4-dimethyl-1,2,3,6-tetrahydropiperidine gave only 4% H and the material was uncharacteristically monomethyl. A similar result was obtained with 3,4-dimethyl-4-oxopiperidine; apparently, non-hindered piperidines are not dehydrogenated under these conditions. N-Methylpiperidine gave 80% H and a catalyst which was recycled through the catalytic cycle gave 6% H (no H), the oil, gas also contained some 5–6% CH_4 . The liquid catalyst also reacted with KMnO_4 and after fractional distillation